

Active Claims

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- 1        2. A method of assigning identifying indicia to objects in multidimensional space comprising the  
2 steps of:
  - 3            sorting objects initially according to a first dimension of their location in multi- dimensional  
4 space;
  - 5            determining ambiguities among coordinate values of their location in the multi-dimensional  
6 space according to whether separation of objects in a dimension is less than a predetermined  
7 threshold value;
  - 8            grouping subsets of objects according to ambiguities in the objects; and
  - 9            ordering ambiguous objects in subsets according to other dimensions of the multidimensional  
10 space.
- 1        3. The method according to claim 2 wherein said determining step includes the step of  
*B12* ascertaining a predetermined threshold value based on known errors of position measurements.
- 1        4. The method according to claim 2 including an initial step of:
  - 2            selecting as the first dimension of a multidimensional coordinate system that dimension along  
3 which separation of objects exhibits the greatest dispersion.
- 1        5. The method according to claim 2 wherein said grouping steps includes the step of:
  - 2            determining ambiguities among coordinate values according to whether separation of targets is  
3 less than any of a plurality of predetermined threshold values.
- 1        6. The method according to claim 2 wherein said determining step includes the step of:
  - 2            ascertaining a predetermined threshold value based on a maximum rate of change of position of  
3 one target with respect to any other.

1       7. The method according to claim 5 wherein said determining step includes the steps of:  
2             ascertaining one of said predetermined threshold values based on maximum rate of change of  
3             position of one object with respect to any other; and  
4             ascertaining another one of said predetermined threshold values based on the random  
5             errors of measurements in positions of the objects.

1       8. A method of sorting indicia corresponding to objects moving through a multidimensional space  
2             comprising the steps of:  
3             scanning the multidimensional space to detect positions of objects therein;  
4             assigning unique indicia to each detected object;  
5             sorting assigned indicia along one coordinate axis of the multidimensional space;  
6             grouping into subsets any indicia exhibiting an ambiguity along the coordinate axis; and  
7             ordering indicia in subsets according to other coordinate axes of the multidimensional space.

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